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- ☐ 1. PLASMA-ENHANCED FUNCTIONALIZATION OF INORGANIC OXIDE SURFACES
DENES, Ferencz S. / MANOLACHE, Sorin Odisei / HELGREN, Jason M. / LAGALLY, Max G. / LARSON, Bradley James / WISCONSIN ALUMNI RESEARCH FOUNDATION, PATENT COOPERATION TREATY APPLICATION, Nov 2005
...for covalently bonding epoxy-functional **spacer** molecules and biomolecules to oxide surfaces...with epoxy- functional molecules to form **spacer** chains covalently attached to the substrate...hydroxyl groups to provide surface-bound **spacer** chains. The **spacer** chains so formed may...
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- ☐ 2. PLASMA-ENHANCED FUNCTIONALIZATION OF CARBON-CONTAINING SUBSTRATES
DENES, Ferencz S. / MANOLACHE, Sorin Odisei / CRUZ-BARBA, Luis Emilio / LAGALLY, Max G. / LARSON, Bradley James / WISCONSIN ALUMNI RESEARCH FOUNDATION, PATENT COOPERATION TREATY APPLICATION, Sep 2005
...the absence of plasma to provide surface-bound **spacer** chains. The surface-bound **spacer** chains include one or more reactive functional...substrate undergo in situ gas-phase reactions with **spacer** molecules in the absence of plasma to provide...
Full text available at patent office. For more in-depth searching go to LexisNexis®
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- ☐ 3. IMPROVED COMPOSITE MICROARRAY SLIDES
SOLOMON, Keith / MEYERING, Mark / DAIGLE, Derek / SPEARIN, Aaron / CUNO, INC., PATENT COOPERATION TREATY APPLICATION, Nov 2004
Improved composite **Microarray** Slides Belated Supplications This application is...present disclosure relates to improved composite **microarray** slides useful for carrying a **microarray** of biological polymers on the surface thereof and...
Full text available at patent office. For more in-depth searching go to LexisNexis®
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- ☐ 4. METHOD FOR PREPARING SUBSTRATES HAVING IMMOBILIZED MOLECULES AND SUBSTRATES

Re
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mc
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Or
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F
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Wh
Sup
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GARIMELLA, Viswanadham / ZHUKOVYTSKY, Vadym / NANOSPHERE, INC.,
PATENT COOPERATION TREATY APPLICATION, Nov 2005


...subsequently attached to another **spacer** molecule or to a capture probe...groups are free amino groups. I **Spacer** molecules may include many...and poly(m-xylylenediamine **epichlorohydrin** diamine terminated, and PAMAM...example includes neomycin. Other **spacer** molecules include low molecular...

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☐ **5. PYRROLE DERIVATIVES AS PHARMACEUTICAL AGENTS**

CANNE BANNEN, Lynne / CHEN, Jeff / DALRYMPLE, Lisa, Esther / FLATT, Brenton, T. / FORSYTH, Timothy, Patrick / GU, Xiao-Hu / MAC, Morrison, B. / (...) / **MARTIN, Richard, PATENT COOPERATION TREATY APPLICATION, Feb 2006**

Compounds, compositions and methods for modulating the activity of receptors are provided. In particular compounds and compositions are provided for modulating the activity of receptors and for the treatment, prevention, or amelioration of one or more...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **6. PHOTOCROSSLINKED HYDROGEL BLEND SURFACE COATINGS**

HUANG, Wenxi / UM, Pil-Je / CIPHERGEN BIOSYSTEMS, INC., PATENT COOPERATION TREATY APPLICATION, Oct 2005


...patent, the described hydrogel compositions can be used to produce a "microchip," such as a low- or high-density DNA chip or a **microarray** of enzyme-containing gel pads. Another approach to producing hydrogel materials is by deposition of a monomer solution on...

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☐ **7. REACTIVE POLYURETHANE-BASED POLYMERS**

CHANG, Daniel / WEINBERGER, Scot / CIPHERGEN BIOSYSTEM, INC., PATENT COOPERATION TREATY APPLICATION, May 2005

...analyte species captured and detected on a solid support. An example of a surface-based assay is a DNA **microarray**. The use of DNA **microarrays** has become widely adopted in the study of gene expression and genotyping due to the ability to monitor...

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☐ **8. BRIDGED RING STRUCTURES AS PHARMACEUTICAL AGENTS**

FLATT, Brenton, T. / MARTIN, Richard / MOHAN, Raju / MURPHY, Brett / X-CEPTOR THERAPEUTICS, INC., PATENT COOPERATION TREATY APPLICATION, Apr 2005

The present invention is directed to 1,25-dihydroxyvitamin D3 mimics which modulate the vitamin D receptor (VDR). The invention is further directed to pharmaceutical compositions and methods for the treatment, prevention or amelioration of one or more...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **9. BIOCOMPATIBLE FLUORESCENT SILICON NANOPARTICLES**

POSS, Kirtland, G. / MADDEN, Karen, N. / GROVES, Kevin / RAJOPADHYE, Milind / VISEN MEDICAL, INC., PATENT COOPERATION TREATY APPLICATION, Dec 2004

...synthesis, sequencing, mutation detection, real-time polymerase chain reactions, in

sit?' hybridization, and the use of **microarrays**. For example, for detecting a single stranded nucleic acid (e.g. mRNA, cDNA or denatured double- stranded DNA) in a sample...

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☐ **10. LATEX BASED ADSORBENT CHIP**

PAPANU, Steven, C. / POHL, Christopher, A. / CIPHERGEN BIOSYSTEMS, INC.,
PATENT COOPERATION TREATY APPLICATION, Sep 2003

...One example of a surface-based assay is a DNA **microarray**. The use of DNA **microarrays** has become widely adopted in the study of gene...to distinct spatial 10 locations across the **microarray** surface, each spot corresponding to a single...

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☐ **11. COMPOSITIONS AND METHODS FOR NORMALIZING ASSAYS**

STEGE, Justin / PRESTON, Lori, / WEINER, David / DIVERSA CORPORATION,
PATENT COOPERATION TREATY APPLICATION, Jun 2003

In one aspect, the invention provides compositions and methods for expression normalization of enzyme activity screens. Also provided are methods for method for normalizing gene expression in assays and high throughput enzymatic screens to measure...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **12. FUNGAL GENE CLUSTER ASSOCIATED WITH PATHOGENESIS**

YODER, Olen / TURGEON, Barbara, G. / LU, Shen-wen / SYNGENTA
PARTICIPATIONS AG, PATENT COOPERATION TREATY APPLICATION, May 2002

Methods to identify orthologs of ungal CPS1 genes as well as fungal iron reductase and permease/and or MFS transporter genes, and uses thereof are provided.

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **13. METHODS AND REAGENTS FOR ASSEMBLING MOLECULES ON SOLID SUPPORTS**

LERMAN, Leonard, S. / MASSACHUSETTS INSTITUTE OF TECHNOLOGY, PATENT
COOPERATION TREATY APPLICATION, Nov 2001


...alkyl" or "alkylene" is used to refer to a linking group or a **spacer**, it is taken to be a group having two available valences for...polyethylene glycol" is used to refer to linking groups and **spacer** groups, it would be understood by one of skill in the art that...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **14. EPOXIDE POLYMER SURFACES**

SWANSON, Melvin, J. / SURMODICS, INC., PATENT COOPERATION TREATY
APPLICATION, Sep 2001

...Human Genome Analysis: **Microarray**-based Expression Monitoring...photochemical group and **spacer** an-n which covalently...immobilizing DNA into **microarrays**. TeleChem International...Sepharaoses activated with **epichlorohydrin** or bisoxirane (both...any desired effective **spacer** distance between the...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **15. A NEW SUPPORT FOR HIGH PERFORMANCE AFFINITY CHROMATOGRAPHY AND OTHER USES**

ABBOTT, Nicholas / STROEVE, Pieter / DUBROVSKY, Timothy, B. / HOU, Zhizhong / THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, PATENT COOPERATION TREATY APPLICATION, Jun 2000

...synthetic techniques. Additionally, the particles can be used to both synthesize and screen combinatorial libraries and **microarrays** of diverse molecules. The particles of the invention can be used in purification strategies such as size exclusion chromatography...

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